



Performance Data Sheet

AVA5546EXC

General Information

Model	AVA5546EXC	Refrigerant	R-22
Test Condition	ASHRAE	Performance Test Voltage	240V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	13800	11900					
	Watts	1490	1430					
	Amps	11.5	11.4					
	Lb/h	180	159					
-10	Btu/h	14500	12700	10800				
	Watts	1640	1630	1580				
	Amps	12.0	11.9	11.8				
	Lb/h	188	169	149				
-5	Btu/h	15600	13900	12200	10300			
	Watts	1780	1810	1800	1760			
	Amps	12.4	12.4	12.4	12.3			
	Lb/h	201	185	167	148			
0	Btu/h	17300	15700	13900	12100	10300		
	Watts	1910	1970	2010	2000	1960		
	Amps	12.8	12.9	13.0	12.9	12.8		
	Lb/h	221	206	190	173	153		
5	Btu/h	19600	17900	16100	14300	12400		
	Watts	2010	2120	2190	2230	2230		
	Amps	13.1	13.3	13.5	13.5	13.5		
	Lb/h	247	234	219	203	184		
10	Btu/h	22300	20500	18700	16800	14800	12800	10600
	Watts	2100	2250	2360	2430	2470	2470	2430
	Amps	13.4	13.7	13.9	14.1	14.2	14.2	14.1
	Lb/h	279	267	253	237	219	198	173
15	Btu/h	25500	23700	21800	19800	17700	15500	13200
	Watts	2180	2360	2500	2610	2690	2730	2730
	Amps	13.6	14.0	14.3	14.6	14.8	14.9	14.9
	Lb/h	316	305	292	277	259	238	213
20	Btu/h	29200	27300	25300	23100	20800	18500	16000
	Watts	2240	2450	2630	2780	2890	2970	3010
	Amps	13.8	14.3	14.7	15.1	15.4	15.6	15.7
	Lb/h	360	349	336	321	303	282	256

25	Btu/h	33500	31400	29200	26800	24400	21800	19100
	Watts	2280	2530	2740	2930	3070	3190	3260
	Amps	13.9	14.5	15.0	15.5	15.9	16.2	16.5
	Lb/h	410	399	386	370	352	330	303
30	Btu/h	38300	35900	33500	30900	28200	25400	22400
	Watts	2310	2590	2840	3050	3240	3380	3490
	Amps	14.0	14.7	15.3	15.9	16.4	16.8	17.2
	Lb/h	465	454	440	424	405	381	354
35	Btu/h	43500	41000	38300	35400	32500	29300	26100
	Watts	2330	2640	2920	3160	3380	3560	3700
	Amps	14.0	14.8	15.5	16.2	16.8	17.4	17.9
	Lb/h	526	514	500	482	462	437	408
40	Btu/h	49300	46500	43500	40300	37000	33600	29900
	Watts	2330	2670	2980	3260	3500	3710	3890
	Amps	14.0	14.9	15.7	16.5	17.2	17.9	18.5
	Lb/h	592	580	564	545	523	496	466
45	Btu/h	55600	52400	49100	45600	41900	38100	34100
	Watts	2320	2690	3030	3330	3610	3850	4060
	Amps	13.9	14.9	15.8	16.7	17.6	18.4	19.1
	Lb/h	665	650	633	613	588	560	526
50	Btu/h	62400	58900	55200	51300	47200	43000	38500
	Watts	2300	2690	3060	3390	3700	3970	4200
	Amps	13.8	14.9	15.9	16.9	17.9	18.8	19.7
	Lb/h	743	727	707	685	658	627	591
55	Btu/h	69700	65800	61700	57300	52800	48100	43200
	Watts	2260	2680	3080	3440	3770	4070	4330
	Amps	13.6	14.8	16.0	17.1	18.2	19.2	20.2
	Lb/h	826	808	786	761	731	697	658

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.859160E+04	3.521915E+02	8.681381E+00	3.483445E+02
C2	2.792734E+02	-3.631855E+01	-3.978521E-02	4.807895E-01
C3	-1.161428E+02	2.895406E+01	8.121095E-02	-2.244494E+00
C4	1.669418E+01	-1.288093E-01	-1.233448E-03	1.806726E-01
C5	2.324440E+00	7.028735E-01	1.021408E-03	6.569208E-02
C6	-3.051653E-01	-9.831744E-02	-3.546668E-04	1.420741E-02
C7	3.617681E-05	5.784858E-04	-7.531925E-07	-7.526316E-05
C8	-8.098580E-02	-2.525144E-03	3.518505E-06	-7.416505E-04
C9	-1.167483E-02	4.718783E-04	4.290451E-06	-1.847507E-04
C10	-5.375662E-06	-2.585911E-04	-2.970443E-07	-7.560356E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature